EXHIBIT A-1



Source: https://na.panasonic.com/ns/271868_TOUGHPAD_FZ-G1_Spec_Sheet_012020.pdf

FIG. 1

You can set a start-up password to protect your computer from unauthorized use.

Set the password (Setting the Supervisor Password/User Password), and select [Enabled] in [Password On Boot] and/or [Password On Resume] in the [Security] menu of the Setup Utility.

NOTE

- The [Password On Resume] of Setup Utility is effective when the computer was once shut down, and not effective when the computer resume from sleep.
- If the Supervisor Password or User Password has been set, the password input screen will be displayed on starting-up of the Setup Utility even though [Password On Boot] and/or [Password On Resume] is set to [Disabled]. If you set [Password On Boot] to [Enabled] and set [Password Or Reboot] to [Same as Boot], password input will also be required at Windows restart. ([Same as Boot] is the default setting.)

Source: https://na.panasonic.com/ns/272159 TOUGHPAD FZ-G1 Reference Manual.pdf (Pg. 60)

Windows Hello

This function is used to sign in to Windows quickly, or perform individual authentication.

<Only for model with camera with IR sensor>

The face recognition for Windows Hellos is supported. To use Windows Hellos, perform the following steps for setup.

-61-



- 2. Touch [Accounts] [Sign-in options].
- 3. Touch [Set up] under the "Windows Hello".
- 4. Follow the on-screen instructions.

NOTE

- To use Windows Helios, you need to set the password and PIN for sign-in options.
- During face recognition, the IR sensor camera light turns on, and becomes hot. Do not touch the IR sensor section when the light is on, and shortly after the light turns off.

Source: https://na.panasonic.com/ns/272159 TOUGHPAD FZ-G1 Reference Manual.pdf (Pg. 62)

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Source: https://na.panasonic.com/ns/272159 TOUGHPAD FZ-G1 Reference Manual.pdf (Pg. 60)

Setting the Supervisor Password/User Password

Set the Supervisor Password before setting the User Password.

- 1. Start up the Setup Utility. (Starting the Setup Utility)
- 2. Touch [Security] menu.
- 3. Double-touch [Set Supervisor Password] or [Set User Password].
- 4. Enter your password In [Create New Password] and touch ≪ Enter >.
 - When the password has been set, you need to enter your password in [Enter Current Password] and touch ≪ Enter ≫.
 - To disable the password, leave the input field empty and touch ≪ Enter ≫.
- Enter your password again in [Confirm New Password] and touch ≪ Enter≫.
- Touch <F10>, and then select [Yes] and touch <Enter>.
 When using the on-screen keyboard <F10> key, touch [SYM] [F10].

Source: https://na.panasonic.com/ns/272159 TOUGHPAD FZ-G1 Reference Manual.pdf (Pg. 59)

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Source: https://na.panasonic.com/ns/272159 TOUGHPAD FZ-G1 Reference Manual.pdf (Pg. 62)

- 2 MP (1920 x 1080 pixels), 30fps(Video), Monaural Microphone
 - Infrared Sensor with Windows Hello support5
- 8MP rear camera with autofocus and LED flash

Source: https://na.panasonic.com/ns/271868 TOUGHPAD FZ-G1 Spec Sheet 012020.pdf

How it works

The Windows Hello face recognition engine consists of four distinct steps that allow Windows to understand who is in front of the sensor:

Find the face and discover landmarks

In this first step, the algorithm detects the user's face in the camera stream and then locates facial landmark points (also known as alignment points), which correspond to eyes, nose, mouth, and so on.

2. Head orientation

To ensure the algorithm has enough of your face in view to make an authentication decision, it ensures the user is facing towards the device +/- 15 degrees.

3. Representation vector

Using the landmark locations as anchor points, the algorithm takes thousands of samples from different areas of the face to build a representation. The representation at its most basic form is a histogram representing the light and dark differences around specifics points. No image of the face is ever stored – it is only the representation.

4. Decision engine

Once there is a representation of the user in front of the sensor, it is compared to the enrolled users on the physical device. The representation must cross a machine-learned threshold before the algorithm will accept it as a correct match. If there are multiple users enrolled on the system, this threshold will increase accordingly to help ensure that security is not compromised.

Source: https://docs.microsoft.com/en-us/windows-hardware/design/device-experiences/windows-hello-face-authentication

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- 3. Double-touch [Set Supervisor Password] or [Set User Password].
- 4. Enter your password in [Create New Password] and touch ≪ Enter >.
 - When the password has been set, you need to enter your password in [Enter Current Password] and touch ≪ Enter ».
 - To disable the password, leave the input field empty and touch

 Enter >.
- 5. Enter your password again in [Confirm New Password] and touch ≪ Enter ≫.
- Touch ≪F10>, and then select [Yee] and touch ≪Enter>.
 When using the on-screen keyboard ≪F10> key, touch [SYM] [F10].

Source: https://na.panasonic.com/ns/272159 TOUGHPAD FZ-G1 Reference Manual.pdf (Pg. 59)

- 10.1" WUXGA 1920 x 1200 with LED backlighting
- 10-point capacitive multi touch Waterproof Digitizer pen daylight-readable screen
 - 2-800 nit
 - IPS display with direct bonding
 - Anti-reflective and anti-glare screen treatments
 - Ambient light sensor, digital compass, gyro and acceleration sensors
 - Automatic screen rotation
 - Intel® HD Graphics 620 (Built-in CPU) video controller

Source: https://na.panasonic.com/ns/271868 TOUGHPAD FZ-G1 Spec Sheet 012020.pdf

- 2 MP (1920 x 1080 pixels), 30fps(Video), Monaural Microphone
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- 4. Enter your password in [Create New Password] and touch ≪ Enter >.
 - When the password has been set, you need to enter your password in [Enter Current Password] and touch ≪ Enter ≫.
 - ${\color{red} \circ}$. To disable the password, leave the input field empty and touch ${\color{gray} <}$. Enter ${\color{gray} >}$.
- Enter your password again in [Confirm New Password] and touch ≪ Enter ➤.
- Touch

 F10>, and then select [Yee] and touch

 Enter>.

 When using the on-screen keyboard

 F10> key, touch [SYM] [F10].

Source: https://na.panasonic.com/ns/272159 TOUGHPAD FZ-G1 Reference Manual.pdf (Pg. 59)

When you start the Setup Utility with Supervisor Password

You can make the settings of all items of the Setup Utility.

When you start the Setup Utility with User Password

- Note the following:
 - In the [Advanced] and [Boot] menus, you cannot make the settings of all items.
 - In the [Security] menu, you can change only the User Password when [User Password Protection] is set to [No Protection]. You cannot delete the User Password.
 - In the [Exit] menu, you cannot make the setting of [Load Default Values] and [Boot Override].
 - «F9» (Setup Defaults) does not function.

To set Setup Utility, alternatively you can use touch input and pen input.

Using touch screen:

Double-touch the setting value to be changed, select the new value, and touch it again.

Using on-screen keyboard:

To input characters and symbols, touch at the upper right corner of the Setup Utility screen to display the on-screen keyboard.

ESC	1	2	3	4	5	6	7	8	9	0	BKS
q	v	е	r	t	у	u	i	0	р	ENTER	
a	s	d	f	g	h	j	k	1	1	SPACE	
z	×	С	v	ь	n	я	CAP	-	1		SYN

To operate special keys such as a function key, touch [SYM] on the on-screen keyboard so that the key is highlighted as illustrated below.

FI	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
,	-		~	1	0		s	×	^	ENTER	
ě.	•	()	_	+	1	1	1	{	}	SPC
1	2	*	3	"			1	¢	>:	?	SYX

Source: https://na.panasonic.com/ns/272159_TOUGHPAD_FZ-G1_Reference_Manual.pdf (Pg. 66)